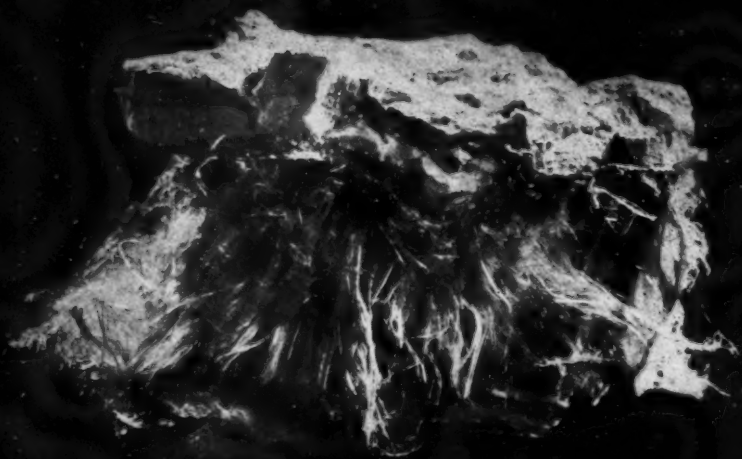


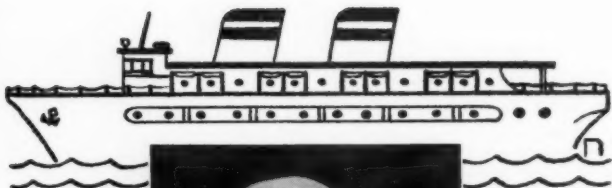
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HAND SORTING ASBESTOS ORE

(Methods of manual classification and selection as a means of up-grading the value of the ore in mining and effecting economies in milling are considered. By: W. E. Sinclair, M.I.M.M.)

The general principles of manual classification as evolved from the practices of primitive man are fairly common operations in most mineral undertakings, notwithstanding the advance in mechanical processes of separation and classification. This is accounted for by the fact that there are certain conditions where hand sorting provides a more satisfactory and more economic medium, hence the retention of the first and original method of ore-dressing in some of the most highly mechanized plants.

In its simplest form sorting, or picking as it is sometimes called, consists mainly of separating the coarse pieces of broken ore and discarding the visually worthless material, thereby increasing the value of the ore.

A more advanced process embracing the same simple principles, generally termed selection, consists of grading the mineral bearing pieces by picking out those containing fibre of a length equal to or longer than some set standard.

Unlike most other minerals, asbestos, like mica, possesses the unique characteristics that make it an easy mineral for sorting because its physical properties of color and fibrous nature are in marked contrast to the rock in which it occurs. These, of course, are the main qualities that assist the eye and hand to work in unison quickly and effectively.

Frequent mention is made of hand sorting and selection in mines and mills in every known asbestos field, (Asbestos, Its Origin, Production and Utilization, by the Author, Mining Publications London, 1955), but few authentic details are published as to the ideal circumstances economically supporting the practice. This is due, no doubt, to the diverse conditions existing in the various asbestos mines. Similarly the unit cost of sorting remains an uncertain factor in even the most meticulous undertakings. To some extent, the reasons are the operating conditions and working methods which often include other ancillary

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jobs such as handling, screening and shovelling the ore, and even crushing in some cases. However, consideration of cost is not the final determining factor in the choice of hand or manual classification. The initial value of the ore, whether it is broken into small pieces and other conditions, including the question of labor and wages are among the points that finally affect the issue.

Under favorable conditions there is little doubt that sorting, where it can be applied satisfactorily, serves many really valuable functions. The most obvious of these is that the value of the ore is stepped up in proportion to the quantity of waste removed, which automatically means an increased production of fibre at lower cost. The handling and treatment of a smaller tonnage should result in more efficient operations and a better end product.

These certain advantages should, in themselves, be sufficient justification for the introduction of hand sorting at every possible point where conditions permit. However, because of the extremely diverse conditions inherent in asbestos production, the question of economics must ultimately be the deciding factor. Considering the known labor capacity and wage scale, the most satisfactory decision is arrived at by determining whether the removal of the bulk of the coarse waste, by hand, will be considerably cheaper than milling this tonnage. The vital factor in this estimation is not so much the possible and unavoidable combination of other work with sorting but the appraisal of the sorter. So much depends on the human element in its capacity to handle the ever changing form of material continuously and effectively. Also costs are naturally affected by the conditions under which the work is executed and whether in mill, quarry or mine. Indeed the practical application of hand classification under these different conditions is such that it will be clearer to consider each separately. In this way the saving affected will be seen to fully offset the costs involved.

Hand Sorting in Mine or Quarry.

In many instances sorting in small mines has been proved to be a valuable means of offsetting high working costs, especially today. Where it is not possible to increase output and lower unit costs by large scale operations, the

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small producer falls back on systematic sorting, because one of the direct advantages is that the removal of the waste rock increases the value of the ore, which, incidentally reduces the tonnage to be hauled to the mill. Besides, the waste sorted out in the mine is usually put to good use in building packs or otherwise serving as ground support; the cheapest form available. It also saves, to a great extent the use of timber or the introduction of some other more costly medium. For these and other advantages, efficient sorting in mine or quarry may, quite certainly, change a low grade, or even a marginal proposition, into a payable one.

As an example, one may quote the application of sorting in the old Munnik Myburgh Chrysotile Mine in the Eastern Transvaal ("The Introduction of Contemporaneous Filling Methods in Stopping on the Munnik Myburgh Chrysotile Asbestos Mine", by the Author. Assoc. of Mine Managers, 21 Oct. '38). The whole story of the modification of the stopping system to make the mine pay is too long to recount in this article. It is found that all the advantages of sorting are profitable to both large and small workings. Large scale operations stand to gain the same benefits with the added advantages of permitting an even increased rate of milling or alternatively reducing milling time which, in some mines is valuable in allowing time for essential overhauls and maintenance work.

In one of the largest quarries at Shabani in Southern Rhodesia, sorting has been general practice. Indeed, selective picking has always been included in quarry sorting operations and special "passes" and hoisting shafts were arranged to deliver the respective products to their destinations, viz: long fibre ore to cobbing plant, shorter to main mill and waste to dump. Even in the underground workings below these quarries the sorting continues, despite the fact that mining methods consist of a combines form of shrinkage and modified top-slicing. Normally this method is not considered altogether suitable for the efficient application of hand sorting. However, these examples provide decisive proof that where it is possible to modify difficult stopping systems, sorting can be successfully introduced.

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Naturally provision must be made for adequate lighting and working space for the sorters wherever the work is done, especially as an auxiliary operation known as knapping, is more often than not, a part of the work. Knapping in these circumstances consists simply of spalling or breaking down extra large pieces of ore to better expose the fibre in it and to simultaneously remove the waste matter.

In stoping systems where hand shorting of the broken ore is difficult, for one reason or another, it is sometimes possible to arrange sorting and knapping "stations" alongside ore-passes. Delivery of the ore at these points may be fed on to grizzlies, which allow the fines (minus 2 inch) to fall through while the plus product is sorted.

The fine ore in most mines and quarries is generally accepted as mill ore except where extremely low grade sections are being worked, then the fines join the waste rock to be used as filling. In some cases fines are used temporarily as filling and reclaimed later on a shrinkage basis. In some tabular type deposits the waste sorted from the ore provides as much as 50 per cent of the required ground support in stoped areas. Where re-suing or modified methods of this system can be successfully adapted, the waste removed may even exceed this figure. It is often possible to apply re-suing methods in deposits of chrysotile asbestos in serpentinized limestone and in the crocidolite and amosite reefs in banded ironstones, especially where the fibre seams are found anastomosing fairly regularly in definite groups. In such structures, alternate blasting of the mineralized and waste channels reduces sorting to a minimum with most effective results.

In general, sorting in most other conditions in mines and quarries results in an amount of from 3 percent to about 20 percent of waste being sorted out.

As already mentioned, the unit cost of sorting is somewhat unreliable, especially in underground workings where conditions are variable and sometimes difficult. Also the work is often unavoidably combined with such operations as knapping, shovelling and sometimes even packing to form ground supports. Because of these complementary operations figures collected show a wide range varying

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On the amosite and crocidolite field in the Northern Transvaal, an unusual process of underground sorting and knapping is fairly general practice. The work includes cobbing the pieces of ore down to one inch cobs so that the ore delivered to the mill carries at least 50 per cent of fibre. This practice originated in the early development of the field when all the initial mining work was done by tributors who were paid by custom mills for the fibre recovered from the ore delivered. The tributors naturally took care to deliver clean cobbled ore with the absolute minimum of waste attached, especially as the early milling technique on the field was not perfect. Indeed most of the mills were incapable of producing graded fibre, consequently the tributors included a further operation during sorting and cobbing, namely, the selection of cobs into various fibre lengths for separate treatment.

Although the old tribute system is gradually giving way to regular mining methods as the mine workings get deeper, some of the companies continue to practice the cobbing system, a system that quite certainly embraces all the proved economies of sorting. However, it is a method of working that can only be applied to comparatively small scale operations, since man-power and high labor costs soon reach a scale that would be top heavy and uneconomic.

Where little or no sorting is undertaken in mining or quarrying operations, special provision is usually allowed for intensive sorting arrangements in the milling plant.

(This article will be continued in our August number)

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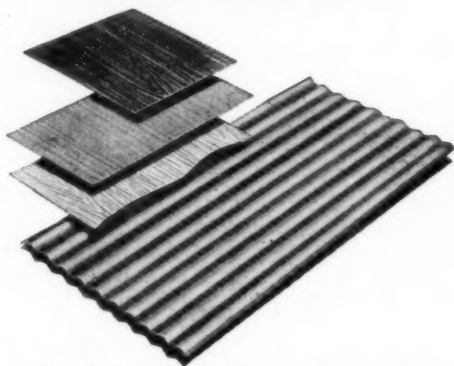
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MATERIALS MANUFACTURERS SEEK HOUSING CHARACTERISTICS DATA

The most comprehensive study ever undertaken of the physical characteristic of new housing is now being conducted by the Bureau of Labor Statistics of the U. S. Department of Labor. The study, a sample survey, is sponsored by Producers' Council, Inc., the organization of building materials manufacturers and associations.

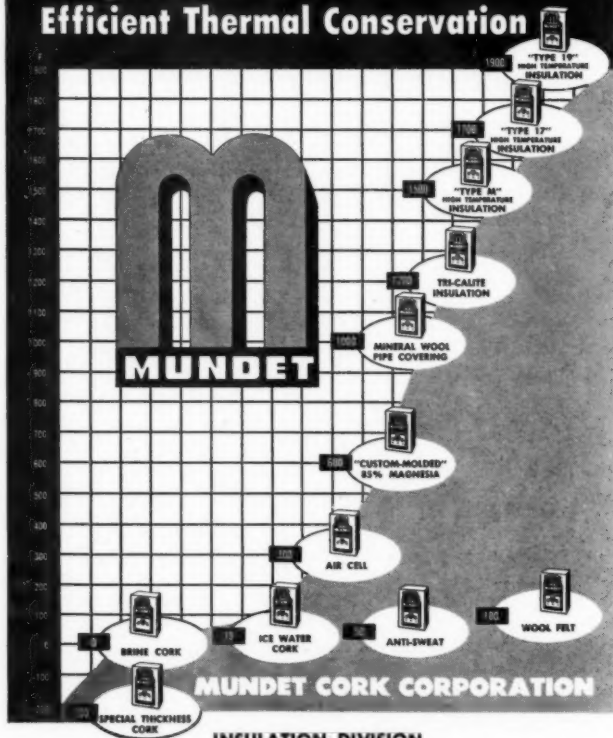
The sample will cover from 40,000 to 45,000 homes, which were started during the first quarter of 1956. The information will be obtained by the BLS's field staff from personal interviews with home builders. The sampling will be carried on in areas requiring building permits as well as those which do not.

The survey is costing \$48,500. Of this amount, \$43,500 was raised through the efforts of the Producers' Council from 33 interested manufacturers and associations. While the BLS has conducted similar sample surveys for many years, none has ever been undertaken on such a large scale, and never has such a complete information been sought on the type of homes being built and the materials and equipment being used. When this data is compiled, it will benefit the home building industry in many ways. Latest trends in housing will be established, and manufacturers' markets and future production needs will be better defined.

Speaking on the value of the survey, Producers' Council's President, William Gillett, Fenestra Incorporated, said, "The rapid growth of the home building industry since the end of World War II has made such a survey of housing characteristics absolutely necessary. The results will alter the thinking of many manufacturers and builders. It is another important step towards keeping our people the best housed in the world."

The survey will provide information on the style and type of houses that builders are constructing, the number of square feet of floor space, the number of bedrooms and bathrooms, the number with basements or utility rooms, how the houses are being heated, what types of kitchen equipment and other equipment are being provided, con-

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struction cost and what type of building materials are being used in construction. Results will be tabulated before the year's end.

WOODEN MATCHES TABOO UNDERGROUND

Some recent visitors to the Jeffrey underground mine in Asbestos (Canada) were surprised when their guide asked one of them to leave a box of wooden matches on the surface, just after he had told them there was no fire-risk in an asbestos mine.

Miners do their best to keep wood as far away from asbestos fibre as possible since it is impossible to separate wood fibre from asbestos in the milling stage and the minutest wood chip can do incalculable harm to a consignment of asbestos.

The first reason is that whereas wood is inflammable, asbestos isn't. Secondly, in steam-cured asbestos products, such as tiling, a wood splinter shows up as a black smudge, which is unsightly. Thirdly, in clutch and brake linings a chip of wood not only looks bad, but causes the facing to break down when subjected to heavy load stresses.

"That's why we use sheet metal blasting poles", said one Canadian Johns-Manville underground worker, "and the sticks we use for tamping explosives are made of plastic or aluminium piping. The only wood we use for blocking operations and planks for stagings, is covered with rubberized fabric to hold the splinters together".

No wooden matches are allowed underground, and the companies sell lighters to underground workers at cost. In most mines a free supply of lighter fuel is on hand in the lamp room.

Another substance which mill-owners don't like to find in the fibre is blasting wire. Although this is colored red to contrast it with the chalky-colored fibre, a lot of it seems to get through, and some of the companies are experimenting with detonating fuse which is completely dissipated by the explosion.



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MINERAL FACTS AND PROBLEMS

The first of its kind ever prepared by the Federal Government this Bureau of Mines publication is the most comprehensive, compact, and understandable survey yet made available regarding the Nation's mineral and fuel resources; their uses, technology, problems, attainment, and outlook. Completely indexed for easy reference, this 1,048-page book is packed with interesting facts and figures. It consists of 85 chapters, each devoted to an outstanding mineral or metal from A to Z — aluminum to zirconium, plus an introduction and a chapter on general mineral research. Each important mineral is carefully discussed; its history, sources, technology, and uses — past, present and probable future. Many months in preparation, this volume is now available from the Superintendent of Documents, Washington 25, D. C. Price \$5.75 per copy — catalog No. 1 28.3:556.

CAREY FIRE-CHEX '400

A new roofing shingle, the Carey Fire-Chex '400, with four times the color exposure of ordinary shingles, has just been put on the market by the Philip Carey Mfg. Company. The Fire-Chex '400 is not a strip shingle, but a giant individual unit 18-7/8" by 24". On the roof it gives an unbroken color exposure 10-1/2" x 18-7/8" — the greatest color exposure of any shingle. While the '400's give added color value to any roof, they show to greatest advantage on the modern low pitch roof. From the ground viewpoint, Fire-Chex '400s give a colorful effect rather than the closely packed rows of black shingle butts that make ordinary shingle roofs "black out" from the low angle.

Complete specifications on the Fire-Chex '400s may be obtained from The Philip Carey Mfg. Company, Cincinnati 15, Ohio.

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East African builders and architects have a convenient source of asbestos-cement products in the Lusalite De Mocambique factory in Portuguese East Africa.

This factory's products, ranging from high pressure piping to flat and corrugated sheets, are imported by Wigglesworth and Company (Africa) Ltd., on a delivery time of a few weeks.

After 20 years of research in Europe, Lusalite De Mocambique have incorporated their technical knowledge in a £1,000,000 factory 18½ miles from Beira, at Dondo, to take advantage of the proximity of the port of Beira and the cement factory at Dondo. The main supplier of the asbestos used in the manufacture of their products is Southern Rhodesia.

Up-to-date laboratories staffed by European trained technicians have been established for testing the raw materials and finished products, which are manufactured to specifications in excess of the minimum laid down by the South African Bureau of Standards.

With this new factory in full production there would be no difficulty in filling the needs of the whole of East Africa for pressure and non-pressure piping, corrugated and flat roofing sheets and pre-fabricated houses, the firm claims. The close situation of the factory to the raw materials and the port of Beira makes shipment easy and lengthy delays in delivery are said to have been totally overcome. The finished article, manufactured to a standard comparable with any in Europe, is highly competitive in price.

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THIS AND THAT

Plans for a \$200,000 traveling building products exhibition have been announced by William Gillett, national president of Producers' Council, Inc. The Council is the organization of building products manufacturers and associations. The products showing will be known as the Home Builders Caravan, and is intended for viewing by builders, residential architects and sub-contracting groups.

The Caravan will travel over 25,000 miles and will be shown in 38 major cities. Each exhibition will be sponsored locally by one of the chapters, whose membership is made up of local sales representatives or distributors for the Council's member-companies.

The most comprehensive report on modern practices in plant maintenance and engineering is contained in **TECHNIQUES OF PLANT MAINTENANCE & ENGINEERING 1956**, published July 1st by Clapp & Poliak, Inc.

The book reports proceedings of the conference held with the Plant Maintenance & Engineering Show and contains the texts of 16 papers, summaries of 15 roundtable discussions and answers to approximately 1,100 specific questions.

The book may be obtained from Clapp & Poliak, Inc., producers of the show and conference, 341 Madison Avenue, New York 17, N. Y., for \$10 postpaid.

Hardinge Company, Incorporated, York, Pennsylvania, has just published a new 8-page catalog on its "Electric Ear" grinding mill feed control, Bulletin 42-A.

The "Electric Ear" is an electronic device which automatically regulates the flow of food material, wet or dry, to a continuous grinding or pulverizing mill, based upon the grinding sound level.

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The 1956 International Home Building Exposition, "Showcase For Better Living", drew 563,000 people during its nine-day showing May 12-20 in the New York Coliseum. This exposition, the first to use all four floors, over 300,000 sq. ft. of exhibit space, attracted not only home owners and potential home buyers, but also drew an estimated 26,000 trade visitors.

Foreign governments represented were Japan, India, Belgium, Israel, the Netherlands, and Western Germany, and other displays included products from Italy, Spain and many other countries.

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MARKET CONDITIONS

General Business
~~ASBESTOS — MANUFACTURED GOODS~~

The most important single factor affecting General Market conditions at this point is the steel strike. The duration of the strike will, if prolonged, seriously affect the entire economy for some time to come. Whatever the settlement terms, the price of steel is certain to rise and this will almost certainly lead to another round of price increases in practically all lines of manufactured goods. The "cost of living" index just recently equalled the previous high of some years ago and now seems certain to rise even higher. In plain words, the nation now faces another round of inflationary wage and price increases at a time when the market for consumer hard goods is none too good. This could result in a further drying-up of demand for such goods and a consequent severe slackening in retail trade. At the same time a prolonged steel strike could seriously impede heavy industry which has been the backbone of the boom during the past few months. All in all the outlook for the remainder of this year is not nearly so rosy as it was a few months ago.

Asbestos Textiles. Very little change is being experienced in the textile market, in fact, there is a slight lessening in demand. Government buying has not been high but there are some prospects pending of sizable inquiries from that source.

Asbestos Brake Lining. Replacement market is still running at record level, being approximately 23% ahead in securements as compared to last year. Equipment sales are still showing the effect of cut-back in production. It is hoped the new '57 models, coming out in the fall, will help reverse the trend.

Asbestos Paper. At present, orders are being received at a rate to keep up with production. Apparently this represents needs rather than desire to protect against price rise. The volume for *Millboard* is behind last year and competition for the available business is very strong with indications of a soft market. It is estimated that the volume for the balance of this year will be below that of last year. The *Saturated Paper* market is good and business is ahead

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of production.

Insulation. High Pressure. A slight improvement has been experienced; however, the demand is much below production. Although a lot of work is being figured by contractors and competition is keen, orders are being received very slowly.

Insulation. Low Pressure. Volume is very low at present, which is the result of poor weather conditions during three months of this year slowing up many of the projects that would be requiring insulation at this time. The remainder of the year should increase sufficiently to show sales equal to last year.

Asbestos Cement Products. This market is seasonally slow.

Production exceeds demand for both corrugated and flat although there is an indication of increasing business during the next few months.

The present demand for all types of pipe continues strong although spotty. The outlook for the remainder of the year is good as within a few months the impact of buying for sizable housing developments that were late starting because of inclement weather will be felt.

The above comments have been made by various informed executives in the industry. All comments are welcome.

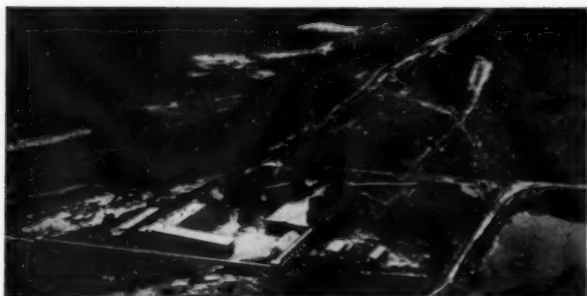
The homeowner finds it easy to become an "Exterior Decorator" with the new BIRD "Rainbow of Colors" Shingle Display Unit (Bird & Son, Inc., East Walpole, Mass.). Requiring only 3½ feet of floor space, lumber dealers from coast to coast are displaying this point of purchase sales builder as an aid in helping their customers to select the "right" color from 32 color samples of the Bird Master-Bilt and King-Tab Architect shingle lines.

**FLINTKOTE TO ENTER GYPSUM FIELD WITH
NEW PLANT AT SWEETWATER, TEXAS**

The Flintkote Company recently announced plans to build a gypsum-processing plant at Sweetwater, Texas, to manufacture gypsum board, plaster and other gypsum materials for the building construction trade.

The Company has acquired a large deposit of gypsum at the Texas site and will begin construction of the plant in the next month or so, and the plant would be in production in 1957.

FLINTKOTE MINES LIMITED



View of site at Thetford Mines, Quebec



◀ *Modern, self-propelled drilling equipment*



Electric shovel and huge diesel truck at the Flintkote Thetford Mine

**Flintkote...a major asbestos producer
... now offers asbestos fibres for sale.
Inquiries should be addressed to**

**Flintkote Mines Limited
(subsidiary of The Flintkote Company)
Thetford Mines, Quebec, Canada**

A concrete-bubble house, a house with a cork exterior, and another with a swimming pool patio are three of the 29 best contemporary architect-designed houses featured in Record Houses of 1956, published by F. W. Dodge Corporation, 119 W. 40th Street, New York City—price \$2.95.

Prepared by the editors of Architectural Record a professional magazine published for architects and engineers, Record Houses of 1956 presents to the "home-building" home-buying public, as well as to the architects designing houses, a comprehensive picture of the best houses from all parts of the United States houses that have been approved for comfortable living by the average sized families that are presently occupying the dwellings.

A "Supervisor's Safety Manual" has been published by the National Safety Council.

Written by staff engineers of the Council's industrial department and carefully reviewed by safety experts from business, industry and government, the manual provides foremen with a comprehensive guide to all phases of industrial safety.

The "Supervisors Safety Manual" is illustrated with numerous photographs and drawings in its 354 pages. For a brochure giving a complete list of the contents and quantity prices, write the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
50 CHURCH STREET
NEW YORK 7, NEW YORK

Now . . .

starting from the usual

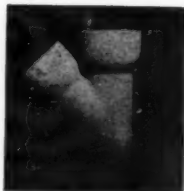


WET ASBESTOS-CEMENT SHEET

A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gremigni)

for manufacturing



FITTINGS

**OF EVERY SHAPE
AND DIMENSION**



- TOUGH**
- RESILIENT**
- COMPACT**
- WATERPROOF**

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

*Inquiries for Details, Quotations and References are
welcome.*

ING. G. MARCHIOLI
22 Morgagni, Milan, Italy

Cable: MINITA—MILANO

Phone: 26 67 27

THE HEART---AND ASBESTOS

In our July 1943 and March 1950 numbers we mentioned the treating of the heart by the injecting of powdered asbestos into the affected parts of the heart and then encasing that organ with the same material.

In commenting on five years' experience with a "dusting" operation Dr. Bernard L. Brofman of Cleveland told the American Medical Association at the Association's meeting, recently held in Chicago, that the process, although delicate, should no longer be used as "a last resort." Instead it should be performed before a "major heart attack has caused significant damage to the heart muscle." The operation consists of mechanically "roughing" the surface of the heart, partially cutting off one of its large veins, dusting the heart with asbestos powder to stimulate blood flow by irritation, and applying fat from a partition around the heart as protective covering. It is so effective in starting formation of a new blood supply route for the heart that 90 per cent of Dr. Brofman's patients are returned to full or part-time work.

Complete Plants for making **ASBESTOS CEMENT PIPES**

Socketed and Non-socketed,
Automatic Pipe Testing Machines — Precision Steel Mandrels
Plants for making Sheets,

Plants designed, equipped and financed

ASBESTOS CEMENT ENGINEERING CO. S. ar. I.

Viale Misurata, 10, Milan, Italy

Agents for overseas:

Wipol Ltd., 71 Lincoln's Inn. Fields, London W. C. 2

WILHELM BURGDORF

Importer of Raw Asbestos

P. O. Box 1131, BREMEN, GERMANY



Modern machines and highly-skilled operators team up to produce superior products at Sal-Mo.

INSULATING & FIREPROOFING PRODUCTS

Asbestos Paper, Rollboard and Tape

Asbestos Millboard

Asbestos Aircell Paper, Sheets and Blocks

Asbestos Pipe Covering

Range Boiler Jackets

Asbestos Furnace & Boiler Cements

Magnesia Covering, Sheets, Blocks and Cement

Asbestos Cloth, Wick and Rope Packings

Asbestos Gaskets

Aluminum-Clad Asbestos Paper, Board and Aircell

Mineral Wool Insulating Cement

SALL MOUNTAIN DIVISION

Nicolet Industries, Inc.

HAMILTON, OHIO

"ASBESTOS PACKINGS AND MILLBOARD"

A new 24-page illustrated booklet, "Asbestos Packings and Millboard", has been issued by The Cape Asbestos Company Ltd., of 114 & 116 Park Street, London W. 1, England. It gives in an easily readable style concise details, with photographs, of the "Pluto" and "Capetto" simplified range of Pump, Valve and Piston Packings, "Pluto" and "Plutok" Static Boiler and Furnace Packings, "Pluto" Proofed Asbestos Sheeting, Joints and Tape, and "Pluto" Asbestos Millboard.

The complex range of branded packings offered today to manufacturing and maintenance engineers is a source of perplexity to any but the specialist, and the "Pluto" and "Capetto" range, state Cape Asbestos, sets out to provide a simplified range of packings in the highest quality materials capable of fulfilling all the basic requirements, with emphasis on adaptability.

ARIZONA ASBESTOS

Mined and Milled by

JAUQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA

Producers of Low Iron Chrysotile

Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

**ASBESTOS
FIBRE
OF ALL TYPES**

**BRANDHURST COMPANY
LIMITED**

**Vintry House
LONDON
E. C. 4**

**Telephone:
London Central 1411
(Private Branch Exchange)**

**Cables:
Brandcollim
London**

Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for April 1956 (Quebec)	96,880 tons
Other Provinces	2,678 tons
	<hr/>
	99,558

Total production for April 1955 was 98,658 tons.

Africa (Rhodesia)

(Published by Rhodesian Chamber of Mines)

Tons 2000 lbs.

Production for February 1956	9,925.25 tons
Valued at	£738,267
Production for February 1955	7,089.06 tons
Valued at	£513,185
Production for Year 1955	105,261.29 tons
Valued at	£7,051,831
Compared with Year 1954	79,961.65 tons
Valued at	£5,922,724

W A N T E D

Seconds or Remnants of Asbestos Textiles

We are interested in rejected or short lengths of lightweight asbestos fabric in any width or length. Submit samples and liquidation prices to THE IRONEES COMPANY, 414 No. 3rd Street, Philadelphia 23, Pa.

SITUATION WANTED

A young Indian experienced in Asbestos-Cement Products seeks a job in foreign countries. Can take full charge of the production. Address: Box 7N-1, "ASBESTOS", 807 Western Saving Fund Bldg., Philadelphia, 7, Pa.

**Many styles!
Hundreds of uses!**



J-M Asbestos Cloth

Johns-Manville weaves the magic mineral, asbestos—great enemy of heat, flame, chemicals and acids—into pliable fabrics. These are serving industry in hundreds of important applications. Made from the longer "spinning fibres," J-M Asbestos Cloth is used in fire blankets, oven and dryer belts, ironer rollers, insulation, protective curtains, electrolytic cells, filter cloths, asbestos clothing, flameproof draperies, theatre safety curtains and countless other products.

Asbestos Cloth is also used combined with other materials contributing exceptional strength and heat resistance. In its wide range of styles you'll find many weaves, thicknesses and weights; with and without wire insertions; suitable for practically every purpose. For more information on J-M Asbestos Textiles write for newly revised illustrated brochure TX-2A. Johns-Manville, Box 60, New York 16, N. Y.
In Canada, Port Credit, Ontario.



Johns-Manville ASBESTOS TEXTILES

*This advertisement appears in
Asbestos—May, 1955*

TT-3424

"Asbestos" — July 1956

Page 35

Imports of Asbestos by United Kingdom

Raw Material

	April 1956 Tons (2240 lbs.)
From: Union of South Africa	1,660
Basutoland, Bechuanaland & Swaziland	1,014
Rhodesia and Nyasaland	2,958
Canada	6,204
Other Commonwealth countries and the Irish Republic	79
Foreign Countries	133
	<hr/> 12,048

These figures were supplied by Reuters Economic Services, Johannesburg.

CAPOSITE INSULATIONS LTD. SARNIA, ONT., CANADA

Caposite Insulations Limited, at Sarnia, on the border of Canada and the United States was formed jointly with the Cape Asbestos (Canada) Ltd., and Holmes Foundry Limited in September 1955, for the production of Caposite high-temperature insulation; production being started in March 1956.



THE COLONIAL SUGAR REFINING CO. LTD.

SYDNEY, AUSTRALIA

Sole Distributors for

**AUSTRALIAN BLUE ASBESTOS LIMITED,
PRODUCERS OF AUSTRALIAN RAW BLUE
ASBESTOS. MINES AT WITTENOOM, W.A.**

SOLE SELLING AGENTS

Argentina, Belgium, Brazil, Denmark,
France, Egypt, Great Britain, Holland,
India, Italy, Norway, Pakistan, Portugal,
Spain, Sweden, Switzerland.

Minerals Fibres Ltd.,
Market Buildings,
Mark Lane, LONDON.

Austria, Czechoslovakia, Germany,
Hungary, Japan, Poland, Yugoslavia.

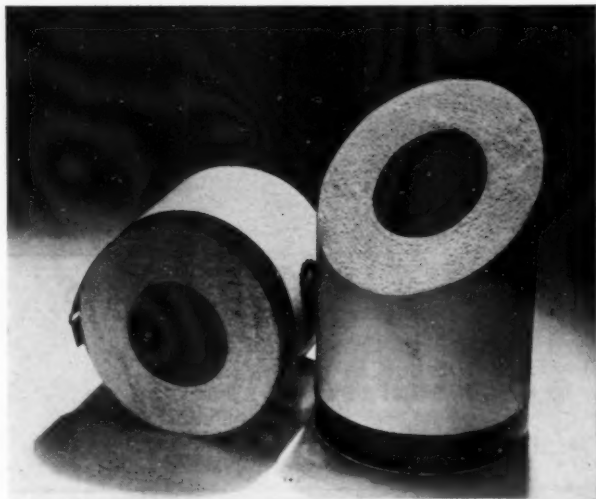
Carters (Merchants) Ltd.,
Winchester House,
Old Broad St., LONDON.

Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It possesses excellent spinning properties. Samples are available upon request.

ATLANTIC ASBESTOS CORP.

*Manufacturers of Dependable High - Low
Pressure Pipe Covering*

Established 1934



ATASCO FELT PIPE COVERING

For Temperatures up to 900° F.

Write for attractive prices

Atasco Laminated

Atasco Felt

Atasco Cell

Asbestos Aircell

Anti-sweat

Wool Felt

Frost-Proof

Asbestos Aircell Sheets

Asbestos Paper

2128 Westchester Ave., Bronx 62, New York
Branch Plant—Red Hook, N. Y.

AUTOMOBILE SALES

	May 1956
Passenger Cars	474,010
Motor Trucks	96,114
Motor Coaches	362
	<hr/> 570,486

In May 1955, a total of 849,393 motor vehicles were sold. In the five months of 1956 the total was 3,268,640.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

PHILLIPS ASBESTOS MINES

Producers of
CRUDES
and

FIBERIZED ASBESTOS
The World's Finest Fibres

DRAWER 71

GLOBE, ARIZONA

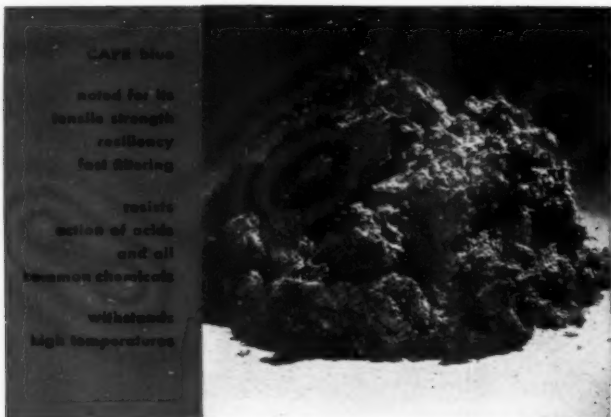
Mines and Mills in Gila Co., Arizona

"Tropag"

ASBEST- & ERZIMPORT OSCAR H. RITTER K. G.
Hamburg . — . Ballindamm 7

Importers since 1909 of

ASBESTOS - ORES - MINERALS



CAPE blue
 noted for its
 tensile strength
 resiliency
 fast filtering
 resists
 action of acids
 and all
 common chemicals
 withstands
 high temperatures

direct from our own South African mines—

BLUE asbestos fiber

Select the strongest of all fibers, from the world's largest producers of Blue (crocidolite) asbestos. Know about its use in molded plastics; as a base for rubber and synthetic impregnants; as reinforcement for bituminous products; as a reinforcement for cements, mortars, refractories. Write for Bulletin 201.

NAAC

In the United States

NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building • Chicago 4, Illinois



In Canada

CAPE ASBESTOS (Canada) Limited

200 Bloor Street East • Toronto, Ontario • Canada

Subsidiaries of The Cape Asbestos Company Ltd. • London

IMPORTS AND EXPORTS

Imports into U.S.A.

(Figures by Bureau of Census)

March 1956

Tons (2240 lbs.)

Unmanufactured Asbestos:

From: Canada	51,833
Union of S. Africa	2,190
Rhodesia (Ny)	974
United Kingdom	50
Other Countries	97
	55,144
Valued at	\$5,585,321

By Grades:

Crude No. 1, Chrysotile, Canada	10
Crude No. 1, Chrysotile, Other Countries	9
Crude No. 2, Chrysotile, Canada	22
Crude, Other, Chrysotile, Rhodesia (Ny)	974
Crude, Other, Chrysotile, Other Countries	22
Crude, Blue, U. of S. Africa	1,235
Crude, Amosite, U. of S. Africa	878
Textile Fibres, Chrysotile, Canada	1,410
Textile Fibres, Chrysotile, U. Kingdom	50
Textile Fibres, Chrysotile, Other Countries ..	66
Shingle Fibres, Chrysotile, Canada	7,398
Paper Fibres, Chrysotile, Canada	4,127
Other Fibres, Chrysotile, Canada	38,866
Other Fibres, Chrysotile, U. of S. Africa	77
	55,144

Manufactured Asbestos Goods

March 1956

	Quantity (lbs.)	Value
Asbestos Yarn, Canada	13,609	\$ 21,055
U. Kingdom	49,887	41,702
Other Countries	8,270	8,550
Asbestos Packing & Lining	5,221	2 837
Asbestos Shingles (Not Impreg.)		
Canada	1,830,238	157,128
Italy	395,492	18,613

CENTRAL ASBESTOS LTD. CO.

ABBEY WORKS • ABBEY STREET • LONDON, S. E. 1.

Phone: BERMONDSEY 3864

Cables: CENBESTOS LONDON

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Corner of Our Factory in London Showing
Asbestos Awaiting Processing

CAPE BLUE ASBESTOS

- HIGH TENSILE STRENGTH
- HIGH ACID RESISTANCE
- STRICT QUALITY CONTROL

DIRECT FROM THE MINES IN SOUTH AFRICA
OR FROM BUFFER STOCKS IN LONDON

We process to customers' requirements all types of Asbestos
ENQUIRIES WELCOMED FOR

CAPE BLUE TRANSVAAL BLUE • AMOSITE • CHRYSOTILE ETC.

Other Countries	52,616	2,818
Asbestos Manufactures—Others .....	.....	3,649
	<hr/> 2,155,333	<hr/> \$256,352

Exports from Canada

(Published by Dominion Bureau of Statistics)

March 1956

Tons (2000 lb.) Value

Unmanufactured Asbestos:

Crude

United States	25	\$ 29,173
United Kingdom .....	.....	.....
South America .....	.....	.....
Central America & Mexico .....	.....	.....
European Countries	13	11,195
Other Countries	10	7,500
	<hr/> 48	<hr/> \$ 47,868

Milled

United States	14,095	\$2,479,793
United Kingdom	2,001	623,103
South America	163	30,515
Central America & Mexico	170	32,030
European Countries	3,005	601,871
Other Countries	3,356	529,136
	<hr/> 22,790	<hr/> \$4,296,448

Shorts

United States	40,289	\$2,117,901
United Kingdom	1,440	60,465
South America	534	26,639
Central America & Mexico	120	5,700
European Countries	1,555	81,218
Other Countries	718	53,087
	<hr/> 44,656	<hr/> \$2,345,010

Grand Total—Unmanufactured Asbestos 67,494 \$6,689,326

Manufactured Asbestos Goods:

Brake Lining	\$ 29,013
Packing	11,426
Other Materials	182,074
	<hr/> \$ 222,513

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



***Producers of
Raw Asbestos Crudes
& Fibres***



Sales Representatives

for

Cassiar Asbestos Corporation Limited

Imports Into U. S. A.

Unmanufactured Asbestos—By Countries:

	Year 1955 Tons (2240 lb.)
From: Canada	624,185
Union of S. Africa	25,624
Rhodesia (Ny)	7,518
Australia	2,989
Yugoslavia	503
So. B. Africa	169
United Kingdom	73
Br. E. Africa	11
France	6
Italy	7
Portugal	4
Venezuela	1
W. Germany	2

661,092

Valued at \$60,957,578

By Grades:

Crude No. 1, Chrysotile, Canada	58
Crude No. 1, Chrysotile, U. of S. Africa	14
Crude No. 1, Chrysotile, Rhodesia (Ny)	94
Crude No. 2, Chrysotile, Canada	146
Crude No. 2, Chrysotile, Rhodesia (Ny)	145
Crude, Other, Chrysotile, Canada	575
Crude, Other, Chrysotile, Portugal	4
Crude, Other, Chrysotile, Yugoslavia	498
Crude, Other, Chrysotile, U. of S. Africa	1,031
Crude, Other, Chrysotile, Rhodesia (Ny)	7,054
Crude, Other, Chrysotile, So. B. Africa	169
Crude, Blue, United Kingdom	1
Crude, Blue, Australia	2,989
Crude, Blue, Union of S. Africa	13,028
Crude, Amosite, Union of S. Africa	10,487
Textile Fibres, Chrysotile, Canada	19,053
Textile Fibres, Chrysotile, Venezuela	1
Textile Fibres, Chrysotile, United Kingdom	64
Textile Fibres, Chrysotile, W. Germany	2
Textile Fibres, Chrysotile, Italy	7
Textile Fibres, Chrysotile, U. of S. Africa	567
Textile Fibres, Chrysotile, Rhodesia (Ny)	68
Shingle Fibres, Chrysotile, Canada	74,909
Shingle Fibres, Chrysotile, Rhodesia (Ny)	144
Paper Fibres, Chrysotile, Canada	55,316
Paper Fibres, Chrysotile, Yugoslavia	5
Other Fibres, Chrysotile, Canada	474,128
Other Fibres, Chrysotile, United Kingdom	8
Other Fibres, Chrysotile, France	6

Other Fibres, Chrysotile, Br. E. Africa	11
Other Fibres, Chrysotile, U. of S. Africa	497
Other Fibres, Chrysotile, Rhodesia (Ny)	13

661,092

Manufactured Asbestos Goods:

	Year 1955	
	Quantity (lbs.)	Value
Asbestos Yarn		
Canada	138,763	\$ 170,690
United Kingdom	526,846	459,019
Belgium	8,899	12,901
France	2,205	1,958
W. Germany	197	273
Italy	4,006	3,602
Asbestos Packing and Lining		
Canada	50,917	72,204
United Kingdom	59,241	24,279
W. Germany	22,408	5,021
Switzerland	65	409
Asbestos Shingles, (Impreg.)		
Canada	1,383,031	120,433
Mexico	1,416	678
Asbestos Shingles, (Not Impreg.)		
Canada	21,646,006	1,802,077
Mexico	1,165,558	73,724
Colombia	91,270	2,455
United Kingdom	58,579	5,340
Italy	11,357,792	499,609
Asbestos Manufactures—Others		
Canada .....	.....	29,485
United Kingdom .....	.....	39,227
W. Germany .....	.....	1,285
Switzerland .....	.....	1,552
	<hr/>	<hr/>
	36,527,202	\$3,326,221

Exports from U.S.A.

(Figures by Bureau of Census)

Manufactured Asbestos Goods:

	March 1956	
	Quantity	Value
Asbestos Brake Lining		\$ 444,420
Asbestos Construction Materials	Lbs. 3,712,156	334,486
Asbestos Manufactures—Others		443,078
		<hr/>
		\$1,221,984

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

- Thomas L. Gatke, President, Gatke Corporation, Chicago, Ill., July 16.
- L. U. Noland, Chairman of the Board, Noland Co., Inc., Newport News, Va., July 17.
- Robert R. Porter, Director & Executive V.P., Keasbey & Mattison Co., Ambler, Pa., July 17.
- G. F. Bahrs, Vice President & Treasurer, The Ruberoid Co., New York City, July 18.
- J. F. D. Rohrbach, President, Raybestos-Manhattan, Inc., Passaic, N. J., July 18.
- R. F. Turner, Sales Promotion Manager, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 18.
- C. B. Whitley, Secretary, Scandinavia Belting Co., Charlotte, N. C., July 20.
- C. J. Backstrand, President, Armstrong Cork Co., Lancaster, Pa., July 21.
- Laurence W. Clarke, Vice President, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 21.
- R. S. King, Chairman, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 21.
- W. S. Simpson, Director & Secretary, Raybestos-Manhattan, Inc., Bridgeport, Conn., July 21.
- R. R. Galloway, Vice President, Fibreboard Paper Products Corp., San Francisco, Calif., July 22.
- J. E. Hooker, Pacific Roofing Co., Portland, Oregon, July 22.
- Roscoe E. Tallman, Director of Board, Tallman McCluskey Fabric Co., Kirkwood, Mo., July 22.
- Charles A. Saitta, President, Asbestos Corporation of America, New York City, July 23.
- C. R. Hubbard, Vice President, Garlock Packing Co., Palmyra, N. Y., July 25.
- Hilton A. Moberg, President, Arnold Insulations, Inc., Chicago, Ill., July 25.
- Frank C. LeRow, Executive Vice President, Asbestos, Asphalt & Insulations, Inc., Chicago, Ill., July 26.
- P. H. Ryan, Sales Manager, Asbestos Products Division, National Gypsum Co., Buffalo, N. Y., July 26.
- R. S. Hammond, General Sales Mgr., Building Products Division, Johns-Manville Corporation, New York City, July 27.
- John Ozurovich, President, Atlantic Asbestos Corporation, New York City, July 31.
- Harry H. Heckroth, Vice President, Penn Supply & Metal Corporation, Philadelphia, Pa., August 2.
- C. W. Gregg, Treasurer & Director, The Flintkote Co., New York City, August 3.



C.J. PETROW & CO. (PTY) LTD.

ASBESTOS
VOLSKAS BUILDING 76 MARKET STREET
JOHANNESBURG, SOUTH AFRICA

**SOUTH AFRICAN
RHODESIAN**

ASBESTOS FIBRES

All Grades - All Types

P. O. Box 11000

Cable: SOTSEBSA

ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.



Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N. Y.



G. P. Reilly, Plant Manager, Smith Asbestos Products, Inc., Millington, N. J., August 5.
 A. P. Keasbey, President, Robert A. Keasbey Company, New York City, August 6.
 Paul C. Callopy, President, Acme Asbestos Covering & Flooring Co., Chicago, Ill., August 8.
 John Dragisic, President, Asbestos & Magnesia Materials Co., Chicago, Ill., August 9.
 Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Ill., August 11.
 Matthew L. Ladden, President, Ladden Asbestos Corporation of N. J., Irvington, N. J., August 15.
 Ernest Muehleck, President, Keasbey & Mattison Co., Ambler, Pa., August 15.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

RAYBESTOS-MANHATTAN (CANADA) LTD.

Appointments

J. F. D. Rohrbach, President of Raybestos-Manhattan, Inc. and Chairman of the Board of Raybestos-Manhattan (Canada) Ltd. announces the following executive appointments: *J. Stewart Munro*, B.A. Sc., to President of the Canadian Company and *Douglas Pocock* to the newly-created post of Vice President, Replacement Sales.

Mr. Munro joined Raybestos-Manhattan (Canada) Ltd. in 1941 as Plant Engineer and has advanced through many important positions including those as Chief Engineer, Assistant General Manager and Vice President. As President, Mr. Munro succeeds Robert Abbott who, although in retirement, will remain as a Canadian Director of the Company.

Mr. Pocock, one of the best known men in the automotive service field, joined Raybestos-Manhattan (Canada) Ltd. in 1920, and has held the post of Sales Manager since 1940. His appointment to Vice President, Replacement Sales recognizes the importance of this operation and acknowledges the significant contribution Mr. Pocock has made in this field.

ASBESTOS FIND IN EIRE

Traces of asbestos have been found on the site of the old copper workings at Allahies, County Cork, Dublin, according to an announcement by Mr. James McCannel, senior geologist of the Can-Erin Mining Company of Toronto. The company has formed two subsidiaries to exploit copper deposits in Eire.

Mr. McCannel said that he had been shown ore which carried distinct traces of asbestos and the possibility of mining it would be examined.

CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

and

FILTRATION FIBRE

Mines & Mill:

**SAN CARLOS
INDIAN RESERVATION
GILA COUNTY, ARIZONA**

**P.O. BOX 1506
GLOBE, ARIZONA**

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

**Our experienced engineers and machinists offer the
industry entire machines built to deliver maximum
production.**

Your Inquiries Are Invited

1-51 Paterson Avenue

E. Rutherford, N. J.

FRICTION MATERIALS STANDARDS INSTITUTE, INC.
Annual Meeting—Election of Officers

At the Annual Meeting of the Friction Materials Standards Institute, Inc., held on June 20, 1956, the following officers were elected for the year starting July 1st:

President—*Leo S. Sullivan*, The Russell Mfg. Co.

Vice President—*William J. Vachout*, Molded Materials Div., Carlisle Corporation.

Treasurer—*Vincent A. Spina*, Scandinavia Belting Co.

Secretary—*Miss Harriet G. Duschek*

Other members of the Board of Directors, serving these officers are:

Frederick C. Weyburne—Marshall-Eclipse Division, Bendix Aviation Corporation

Franklin A. Miller—Raybestos-Manhattan, Inc.

Howard Snow—Southern Friction Materials Company

George S. Lamson—Thermoid Company

Richard A. Riley—World Bestos Corporation.

ASBESTOS TEXTILE INSTITUTE

Members Tour Canadian Operations

Members of the Asbestos Textile Institute (Headquarters in Philadelphia, Pa.) were guests, the early part of June, of the Quebec Asbestos Fibre Industry, which supplies 65% of the world's Asbestos production.

This tour of Canadian operations, covering the Thetford Mines and Asbestos, P. Q. areas, has made it possible for the group to get an idea of the present availability and potential supply of asbestos fibre. According to Mr. George W. Smith, President of the Quebec Asbestos Mining Association, "the present production of spinning fibres now exceeds 75,000 tons annually. It should be pointed out that there is an additional 1,000,000 tons of other grades asbestos fibres flowing from these vast operations annually."

As a result of the visit, members of the Asbestos Textile Institute felt assured that there were ample reserves of Asbestos fibre to meet not only their needs but the needs of the other asbestos consuming industries.

Some of the prime users of asbestos textile products include all branches of the Armed Services, the shipbuilding, automotive, aircraft, electrical, reinforced plastics and many other industries.

NATIONAL GYPSUM CO.

A nationally known construction authority, *Carl F. Engle-bry*, has been named by National Gypsum Co. to the new post of Architectural Service Manager. Mr. Engle-bry is a veteran of more than 30 years in all phases of the gypsum business.



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Grades (comparable Canadian 3T and 3Z).

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Bulawayo, Rhodesia.

RAYBESTOS-MANHATTAN, WABASH DIVISION

New Appointments

The following appointments at the Wabash Division, Crawfordsville, Indiana have been announced:

Clarence P. Schneider, General Manager. Mr. Schneider started with the Manhattan Rubber Division in 1929 in the Engineering Department and later with the Friction Material Test Laboratory. In 1951 he was transferred to the newly built Wabash Division plant as Factory Manager.

Norman L. Caldwell, Factory Manager. Mr. Caldwell joined the Raybestos Division at Bridgeport in 1949 and then became foreman of the Sheet Packing Department. He was transferred to the Wabash Division in 1951 as General Foreman and later became Production Superintendent in 1953.

Dr. Ben T. Collins, Director of Research and Product Development. He joined the Wabash Division in 1955 as Product Development Engineer.

LeRoy Musselman, Division Comptroller. Joined the Wabash Division as an accountant in 1951.

CAPE ASBESTOS COMPANY LIMITED

Annual Meeting

The sixty-third annual general meeting of The Cape Asbestos Company Limited was held on June 11, 1956 and reports and balance sheets as of December 31, 1955 were submitted.

The Chairman, Robert Walker stated it was gratifying to be able to disclose a substantial increase in profits. The Group trading profit for the year amounted to £1,538,194, compared with £1,256,015 in 1954

The South African manufacturing subsidiary, Cape Asbestos Insulations (Pty) Ltd. at Benoni, has had a profitable year and prospects are encouraging.

In Italy, Capamianto S. p. A., while still experiencing considerable difficulty has shown a perceptible improvement over the previous year, and the prospects are brighter.

At Uxbridge the manufacture of Bricks continued at what is virtually maximum capacity.

CANADA'S MINERAL PRODUCTION

Preliminary Report — 1955

Canada's mineral production in 1955 broke previous records with a valuation of \$1,778,400,000 according to a preliminary estimate prepared by the Dominion Bureau of Statistics at Ottawa. This is an increase of \$290 millions or 19.5 per cent over the \$1,488 millions of 1954.

Non-metallic minerals increased 14 per cent in value to a new high of \$149 millions. The shipment of asbestos exceeded a million tons and approached \$100 millions in value.

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Vanguard Asbestos Mines

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Associated Asbestos Mines

Grades: Spinning, 3Z, 4H, 5R, 6D, 7M

UNION CHRYSOTILE

Scottro Asbestos Mines

CAPE BLUE

Kuruman Cape Blue Asbestos

Grades: 1, 2, 3

TRANSVAAL BLUE

Baboon Asbestos Co.

Springbok Asbestos Co.

Grades: TD1, TD2, TD3, TD4

AMERICAN BRAKE SHOE CO.

Safety Program

The safety program of American Brake Shoe Company has saved the eyesight of nearly 100 employees in the last two and a half years, according to an article in the June issue of the Brake Shoe News, employee magazine of the company.

All production employees of Brake Shoe are required to wear eye protection on the job as a safety precaution. The safety glasses or goggles are supplied without charge by the company to each employee or visitor to its plants. If an employee's goggles are struck by a foreign object in the course of his work, and his eyesight is thereby saved, he is enrolled in a club known as the Wise Owl Club. The club is a nation-wide organization sponsored by the National Society for the Prevention of Blindness to encourage the reduction of eyesight injuries in industry.

NEW R/M SALES APPOINTMENTS

Raybestos-Manhattan, Inc. recently announced the following appointments:

H. H. Burrows, Senior Vice President of Rubber Sales Division. Mr. Burrows joined the Manhattan Rubber Division in 1915, later became Manager of the Roll and Tank Department, Sales Manager of Industrial Rubber Products Division and was appointed a Vice President of the Corporation January 1955.

R. B. Hazard, Vice President and Sales Manager Rubber and Packings. Mr. Hazard, started in 1945 as a sales representative of the Packing Division at Minneapolis, became Manager Distributor Sales in the Western District located at Chicago and assumed the Sales Managership of the Rubber and Packing Divisions January 1955.

S. J. Synnott, Assistant Sales Manager Rubber Products.

C. V. Vetell, Manager Rubber Product Sales.

E. R. WEIDLEIN RETIRES FROM MELLON INSTITUTE

The retirement of *Edward R. Weidlein* as president of Mellon Institute was announced at a testimonial dinner for him in Pittsburgh on March 31, attended by 327 of his institute associates.

Mr. Weidlein had been with the institute for over 40 years, where he began as a senior fellow in 1912 and became an executive staff member in 1916. After serving as director for 30 years he was named president in 1951. In addition to many other activities for civic betterment, he was a leader in smoke control since 1916. He was also a pioneer in the development of the synthetic rubber industry in this country.

He will remain on the board of trustees of the institute and will be available in an advisory capacity in the administration of the research programs.

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A. S. T. M. PRESENTS HONORARY MEMBERSHIPS

Certificates of election to Honorary Membership in the American Society for Testing Materials were presented to the following during the 59th Annual Meeting: *Herbert James Gilkey*, Head of the Department of Theoretical and Applied Mechanics, Iowa State College; *Henry Bigelow Oatley*, Consultant, and Retired Vice President of Engineering, The Superheater Co., New York City; *James Tucker MacKenzie*, retired Technical Director, American Cast Iron Pipe Co., and now associated with the Southern Research Institute; *Albert Easton White*, Consulting Metallurgical Engineer; retired Director Engineering Research Institute, and Professor of Metallurgical Engineering, University of Michigan.

CURRENT RANGE OF PRICE

As of July 10, 1956

Arizona—

Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	\$1,500.00 to \$1,750.00
No. 2 Crude (soft)	900.00 to 1,050.00
No. 3 Crude (soft)	400.00 to 450.00
Filter Fibre (soft)	250.00 to 450.00
No. 1 Crude (semi-soft)	1,200.00 to 1,500.00
No. 2 Crude (semi-soft)	900.00
No. 3 Crude (semi soft)	400.00

Canada—

Per Ton 2000 lbs. f.o.b. Mine

Group No. 1 (Crude No. 1)	\$1,400.00 to \$1,725.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	750.00 to 1,100.00
Group No. 3 (Spining Fibre)	350.00 to 575.00
Group No. 4 (Shingle Fibre)	170.00 to 225.00
Group No. 5 (Paper Fibre)	110.00 to 140.00
Group No. 6 (Waste, Stucco or Plaster)	82.00
Group No. 7 (Refuse or Shorts)	38.00 to 75.00

Vermont— Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering)	\$ 353.00 to \$ 383.00
Group No. 4 (Shingle Fibre)	172.00 to 190.00
Group No. 5 (Paper Fibre)	114.00 to 145.00
Group No. 6 (Waste, Stucco or Plaster)	82.00
Group No. 7 (Refuse or Shorts)	39.00 to 72.00

NATIONAL GYPSUM COMPANY
Reorganizes Sales Department

The National Gypsum Company recently announced a major reorganization within its sales department.

The Company has set up a new Commercial Trade Sales Division to handle sales to prefabricators and sales of acoustical, gypsum roof deck and heavy corrugated asbestos products to franchised contractors.

A veteran sales executive, *J. William Duncan*, formerly manager of the company's paint sales division, was named manager of the division.

George W. Handy, one of the nation's recognized acoustical authorities and formerly National Gypsum's acoustical sales manager, was promoted to technical director of the new division.

A new position of director of marketing research was created. *Duncan L. Farr*, formerly marketing consultant for Booz, Allen & Hamilton of New York City, has been named to this post.

**EAGLE-PICHER EXPANDS INDUSTRIAL
INSULATION LINE**

Mr. Glen J. Christner, Vice President of The Eagle-Picher Company and General Manager of the Insulation Division, recently announced an important expansion of the Company's line of Industrial Insulation Products, which enables them to serve the trade and their Applying Contractors with a complete selection of high-temperature insulating materials.

The most important new additions are Eagle-Picher HYLO Pipe Covering and Block and a full line of 85% Magnesite coverings to be known as Eagle-Picher 85% Magnesite. This expansion in industrial insulation products will enable The Eagle-Picher Company to participate in all types of high-temperature insulating materials.



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tion's roofing and siding con-
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INTERNATIONAL ASBESTOS-CEMENT REVIEW
NIEDERURNEN, SWITZERLAND

In January of this year the first number of International Asbestos-Cement Review, was published. This is a quarterly review dealing with architectural and technical applications of asbestos-cement products and is published in English, French and German.

International Asbestos-Cement Review is designed to appeal to the architectural profession and, we understand, the response has been very favorable.

Price per issue United States, 70c United Kingdom 5s and France, s. Fr. 3.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness).

	June 1956			
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	41%	43½	43
Amer. Br. Shoe (Pfd.)	100	106	108	107
Armst. Ck. (Com.)	1	31%	34%	34
Armst. Ck. (Pfd.)	np	95%	97½	96
Asbestos Corp. (Com.)	np	39	41	41
Carey (Com.)	10	23¼	23%	23½
Cassiar Asb. Corp.	np	\$8.20	\$8.60	\$8.35
Celotex (Com.)	1	40%	43%	43%
Celotex (Pfd.)	20	19½	20	20
Certainteed (Com.)	1	28%	31%	31½
Dominion Asb. Mines	1	16c	20c	18c
*Fibreboard Paper Prod. Corp.	np	38½	40½	39½
*Fibreboard Paper Prod. Corp.	100	120	123%	123%
Flintkote (Com.)	5	35%	38¼	37½
Flintkote (Pfd.)	np	101	101	101
Johns-Manville (Com.)	5	48¼	50%	48%
Natl. Gypsum (Com.)	1	52	55%	52%
Natl. Gypsum (Pfd.)	np	102	103¼	102½
Ray-Man (Com.)	np	55½	57½	55½
Ruberoid (Com.)	1	31	32%	32
Thermoid (Com.)	1	12¼	12%	12¼
Thermoid (Pfd.)	50	44¼	45	45
Union Asb. & Rub. (Com.)	5	6%	6%	6%
United Asb. (Com.)	1	\$6.60	\$7.25	\$6.90
U. S. Gypsum (Com.)	4	63¼	66%	65%
U. S. Gypsum (Pfd.)	100	174½	176½	176½
U. S. Rubber (Com.)	5	46¼	51	50%
U. S. Rubber (Pfd.)	100	166½	170	168¼

* Name changed from Pabco Products.

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E N G L A N D

**JOHNSON'S ASBESTOS CO.
NEW LOCATION**

As part of the vast relocation program carried on by the three major asbestos companies in Thetford Mines to provide for expanding operations, Johnson's Asbestos Company were obliged to vacate and demolish their office building.

A new building has been erected at the corner of Mooney and Alfred Streets, which they have occupied since May 14th, 1956.

Their new telephone number is: FEderal 5-9193

MINING JOURNAL ANNUAL REVIEW NUMBER

The annual review number of the Mining Journal published in London (15 Wilson Street, Moorgate, London, E. C. 2) was issued in May and contained over 300 pages. Many special contributed articles, reporting on the mining industry throughout the world during 1955 are among its contents. The contents can be roughly grouped as Metals, Mining and Metallurgical Developments, The World's Mining Fields, and Progress During the Year, covering the various mining fields.

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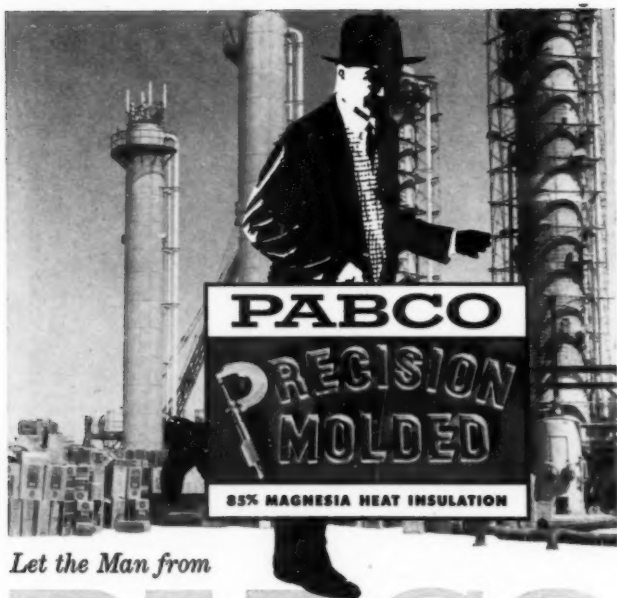
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NATIONAL GYPSUM COMPANY

New Appointments

H. William Orth has been promoted to Sales Manager of National Gypsum Company's Acoustical Sales Division according to a recent announcement. He succeeds *George W. Handy* who has been named technical director of the company's new Commercial Trade Sales Division.

A native of Minneapolis, Mr. Orth joined National Gypsum in 1951. He has served successfully as large job salesman, construction consultant, assistant commodity manager and commodity manager.

The company also announced the promotion of *Joseph E. Seguire* to the new position of merchandising manager of paint sales.

FOUNDER OF ETERNIT PASSES AWAY

The founder of the Eternit Group of Genoa, Italy passed away at the age of 91.

In 1913 *Dr. Adolf Mazza* commenced the manufacture of asbestos-cement pressure pipe using a process invented by himself. At the time of his death he was still the President and Managing Director of the Eternit Group.

The process invented by *Dr. Mazza* continues to be the recognized means of manufacturing asbestos-cement pressure pipes.

THE RUBEROID CO.

New Appointment

Harold B. Smith has been appointed sales manager of the Kansas City District; having been assistant district manager since 1951.

Mr. Smith entered the building materials field in 1948 after spending nearly 20 years in the newspaper and advertising business. His sales career actually began in 1925 when he left college to sell for the Hershey Chocolate Company for two years.

THE PHILIP CAREY MFG. CO.

New Appointment

The appointment of *Robert F. Quinn*, of Buffalo, N. Y., as advertising Manager of the Philip Carey Mfg. Company has recently been announced.

Mr. Quinn comes to Carey with an extensive background in the advertising field, having spent the past three and one-half years as Assistant Advertising Manager of National Gypsum Company. Previous to that, he served for six years as Advertising Manager of the Pittsburgh-Corning Corporation, Pittsburgh, Pa.



The processes of converting crude Asbestos into a wide range of products are carried out entirely in our factory at Cleckheaton. Long experience in a highly specialised industry is supported by a well-equipped modern laboratory devoted to intensive research and experimental work. B.B.A. Products include Asbestos Fibre, Yarns, Tapes, Cloths, Packings, Rovings, Tubing, Webbing, Clothing, Jointing, Mintex Brake and Clutch Liners and other Friction Materials, all types of belting for industry including Scandura the original P.V.C. fireproof conveyor belting.

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CLECKHEATON, YORKSHIRE, ENGLAND

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WAGE RATE CHANGES

Wage rate changes for Asbestos workers (pipe and boiler coverers) as reported in the April 1956 number of the Asbestos Worker published quarterly by the International Association of Heat and Frost Insulators and Asbestos Workers) are as follows:

Cedar Rapids, Iowa	\$3.25	Oklahoma City, Okla.	3.15
Denver, Colo.	3.25	Port Arthur, Ont., Can. ..	2.00
+10c W. F.		+4% V. F.	
Duluth, Minn.	2.95	Providence, R. I.	3.15
+7-½c W. F.		+12c W. F.	
El Paso, Texas	3.10	Puget Sound Naval Ship-	
Evansville, Ind.	3.22½	yard, Bremerton,	
Fort William, Ont.,		Wash.	2.37
Canada	2.00	Sioux City, Iowa	2.92½
+4% V. F.		+7c W. F.	
Knoxville, Tenn.	3.05	Toledo, Ohio	3.33
+7-½c W. F.		+7c W. F.	
Laramie, Wyo.	3.25	Wood River, Ill., (Oil	
+10c W. F.		Refinery only)	2.71
Memphis, Tenn.	3.12½	Regina, Saskatchewan,	
+7-½c W. F.		Canada	2.10

W. F.—means Welfare Fund — V. F.—means Vacation Fund

THE PHILIP CAREY MFG. CO.

To more effectively sell and service the Railroad Industry, The Philip Carey Mfg. Company has appointed F. W. "Fred" Evinger, Manager of Railroad Sales for both Carey and The Lehon Company products. Mr. Evinger will headquarter at the Carey Chicago Office.

Mr. Evinger brings an interesting railroad background to his new position, including 21 years with the Union Pacific Railroad in Omaha, the major portion of which was spent in their Engineering Department; 8 years with a major paint manufacturer as a Railroad Sales Representative, and 4 years with The Lehon Company as Supervisor of Railroad Sales.

FROM YOUR EDITOR

ON THIS, OUR 37th BIRTHDAY

We send to *you, our readers*, our very best wishes. In return, we sincerely hope that you will continue your good will toward "ASBESTOS".

**THERMALITE
85% MAGNESIA
INSULATION**

*...often outlasts
the pipe!*

*Southern Production
Co. Gasoline Plant,
Pledger, Texas*



THERMALITE 85% Magnesia frequently outlives equipment and piping. And only Ehret makes it. Moisture resistant and durable, shock resistant and structurally stable, THERMALITE makes your first cost your last. Teamed with sheet aluminum for protection against temperature extremes, sandstorms and tornadoes, THERMALITE is used throughout this Texas refinery to keep heat balances constant. For more information on Ehret THERMALITE, see your distributor or write for Bulletin 9C.

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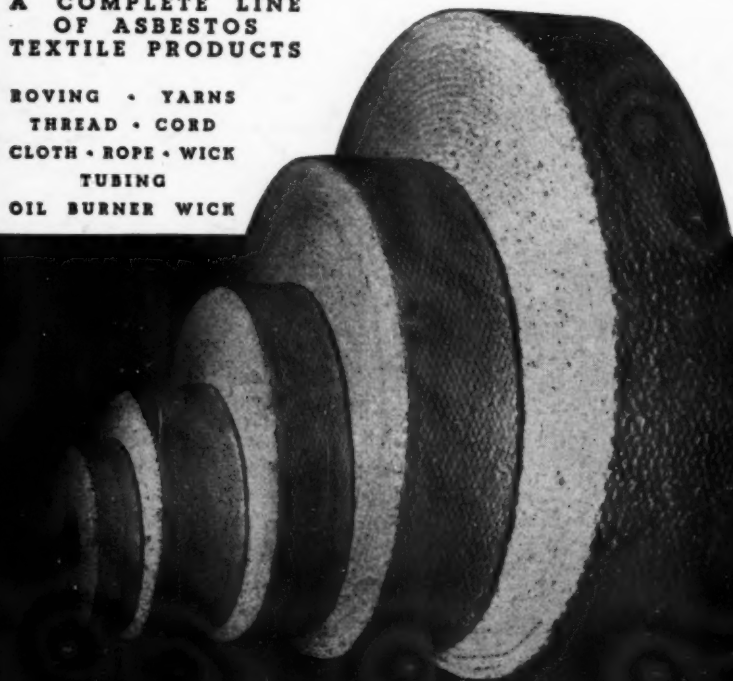
Southern Listing Tapes are flame proof. Flexible, uniform weave, width and thickness assures superior service and insulation. High tensile strength insures efficient application.

Two types—Ferrous for general insulating purposes and Non-Ferrous where a material with very low iron content is essential. Write for illustrated Folder No. 1008.

Over 25 years of specialized experience in Asbestos Textiles and Textile Products is at your service at Southern Asbestos. Our technical and production facilities are available to help you improve old and develop new uses for asbestos fibre and textiles.

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